



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/543,865	04/05/2000	Cheol-jin Kim	PO6596USORFH	6382

881 7590 03/28/2002
LARSON & TAYLOR, PLC
1199 NORTH FAIRFAX STREET
SUITE 900
ALEXANDRIA, VA 22314

EXAMINER

NGUYEN, TUYEN T

ART UNIT	PAPER NUMBER
----------	--------------

2832

DATE MAILED: 03/28/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/543,865

Applicant(s)
Kim

Examiner
Tuyen Nguyen

Art Unit
2832



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Mar 11, 2002
- 2a) ☐ This action is FINAL.
- 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above, claim(s) 8-15 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on Apr 5, 2000 is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some* c) ☐ None of:

- ☒ Certified copies of the priority documents have been received.
- ☐ Certified copies of the priority documents have been received in Application No. _____.
- ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2
- 18) ☐ Interview Summary (PTO-413) Paper No(s) _____
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: _____

Art Unit: 2832

DETAILED ACTION

Election/Restriction

1. Claims 8-15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method of manufacturing a high voltage transformer, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 6.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

3. Figures 8-9 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Application/Control Number: 09/543,865

Art Unit: 2832

5. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, line 5, there is no antecedent basis for "said sensor accommodating part."

Claims 2-7 inherit the defect of the parent claim.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art shown in figure 8 and 9 (AAPA, hereinafter) in view of Joseph [US 4,112,405].

AAPA, figure 8, discloses a high voltage transformer [120] comprising:

- a core [123];
- a primary and secondary coils [125, 129];
- an insulating sheet [133, figure 9] enclosing the secondary coil; and
- a temperature sensor [135] disposed between the insulating sheet and the secondary coil.

AAPA discloses the instant claimed invention except for the insulating sheet supporting and enclosing the coil and including a accommodating pocket for the temperature sensor.

Application/Control Number: 09/543,865

Art Unit: 2832

Joseph disclose a bobbin [29] for a coil [38] including a flange portion [30] having a pocket, or accommodating means [31] for a temperature sensor/fuse [34], wherein the accommodating means *is of a shape permitting the temperature sensor/fuse to be put into, and taken out of, the accommodating means.*

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the temperature sensor accommodating means design of Joseph in AAPA for the purpose of facilitating installation.

Regarding claims 4 and 7, AAPA discloses the temperature sensor comprising one of a thermostat, a thermistor and a fuse.

8. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Joseph as applied to claims 1-5 above, and further in view of Lautner et al. [US 3,959,675].

AAPA in view of Joseph discloses the instant claimed invention except for the accommodating means comprising an external pocket forming element.

Lautner et al. discloses a bobbin structure [11] having an external pocket forming element [see figures 1-5] for a temperature sensor [18].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to mount the accommodating means of AAPA, as modified, externally, as suggested by Lautner et al., for the purpose of providing easier access.

Art Unit: 2832

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Coleman [US 4,454,554]; Lee [US 5,925,280] and Baeg [US 5,742,221].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Elvin Enad, can be reached at (703)308-7619. The fax number for this Group is (703)308-7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308-0956.

TTN *TTN*

Art Unit 2832

March 25, 2002

Tuyen T. Nguyen